

CLIPPEDIMAGE= WO009633306A1

PAT-NO: WO009633306A1

DOCUMENT-IDENTIFIER: **WO 9633306 A1**

TITLE: THERMAL-INSULATION ELEMENT MADE OF VEGETABLE FIBRES

PUBN-DATE: October 24, 1996

INVENTOR-INFORMATION:

NAME	COUNTRY
ZIMMER, HUGO	AT

ASSIGNEE-INFORMATION:

NAME	COUNTRY
ECCO GLEITTECHNIK GMBH	DE
ZIMMER HUGO	AT

APPL-NO: EP09601658

APPL-DATE: April 19, 1996

PRIORITY-DATA: DE29506761U (April 21, 1995)

INT-CL (IPC): D04H001/60; D04H001/54 ; D04H013/00

EUR-CL (EPC): D04H001/60; D04H001/54, E04B001/76

ABSTRACT:

CHG DATE=19990617 STATUS=O>The invention concerns a thermal-insulation element made of vegetable fibres, the element consisting of a non-woven with a random three-dimensional structure. The non-woven used is a particularly high-volume one with a density </= 25 kg/m<sup>3</sup>.

----- KWIC -----

Document Identifier - DID:

WO 9633306 A1

DERWENT-ACC-NO: 1996-485807

DERWENT-WEEK: 200115

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TITLE: High-vol. thermal insulation element - comprises nonwoven fabric made of vegetable fibres, with a random 3-dimensional structure, isotropic fibre orientation and low density

INVENTOR-NAME: ZIMMER, H

PRIORITY-DATA: 1995DE-2006761 (April 21, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 9633306 A1</u>	October 24, 1996	G	015	D04H 001/60
DE 59606409 G	March 8, 2001	N/A	000	D04H 001/60
DE 29506761 U1	October 31, 1996	N/A	008	D04H 001/42
AU 9656909 A	November 7, 1996	N/A	000	D04H 001/60
CZ 9703273 A3	January 14, 1998	N/A	000	D04H 001/04
EP 821746 A1	February 4, 1998	G	000	D04H 001/60
HU 9801814 A2	November 30, 1998	N/A	000	D04H 001/60
EP 821746 B1	January 31, 2001	G	000	D04H 001/60

INT-C\_(IPC): D04H001/04; D04H001/40 ; D04H001/42 ; D04H001/54 ; D04H001/58 ; D04H001/60 ; D04H001/64 ; D04H013/00 ; D06N007/00 ; E04B001/74 ; E04C002/16

ABSTRACTED-PUB-NO: EP 821746B

BASIC-ABSTRACT: An insulation element made of vegetable fibres is claimed, in the form of non-woven fabric with a random 3-dimensional structure, isotropic fibre orientation and a density of not more than 25 kg/m<sup>3</sup>.

USE - Used esp. for thermal insulation and sound insulation.

ADVANTAGE - Provides an insulation element with a low density and good insulating properties, based on vegetable fibres.

ABSTRACTED-PUB-NO: WO 9633306A

EQUIVALENT-ABSTRACT: An insulation element made of vegetable fibres is claimed, in the form of non-woven fabric with a random 3-dimensional structure, isotropic fibre orientation and a density of not more than 25 kg/m<sup>3</sup>.

USE - Used esp. for thermal insulation and sound insulation.

ADVANTAGE - Provides an insulation element with a low density and good insulating properties, based on vegetable fibres.

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Document Identifier - DID:

WO 9633306 A1

L Number	Hits	Search Text	DB	Time stamp
1	1	wo-9012906-\$ did.	EPO; DERWENT	2002/12/09 14:53
6	27	(ret or retting ore retted) same (((disk or disc) near2 (refining or refiner or refined or refine)) or hammermill\$3 or hammer-mill\$3)	USPAT; US-PGPUB	2002/12/09 15:56
7	0	(ret or retting or retted) same (((disk or disc) near2 (refining or refiner or refined or refine)) or hammermill\$3 or hammer-mill\$3)	USPAT; US-PGPUB	2002/12/09 15:46
8	0	(ret or retting or retted) and (((disk or disc) near2 (refining or refiner or refined or refine)) or hammermill\$3 or hammer-mill\$3)	EPO; JPO; DERWENT	2002/12/09 15:45
9	11	(ret or retting or retted) and (((disk or disc) near2 (refining or refiner or refined or refine)) or hammermill\$3 or hammer-mill\$3)	USPAT; US-PGPUB	2002/12/09 15:50
10	9	(US-5981024-\$ or US-6296737-\$ or US-6074524-\$ or US-5858172-\$ or US-RE31862-\$ or US-3808090-\$).did. or (GB-2021030-\$).did. or (EP-422174-\$).did.	USPAT; EPO; DERWENT	2002/12/09 15:51
11	5	(ret or retted or retting) and ((US-5981024-\$ or US-6296737-\$ or US-6074524-\$ or US-5858172-\$ or US-RE31862-\$ or US-3808090-\$).did. or (GB-2021030-\$).did. or (EP-422174-\$).did.)	USPAT; US-PGPUB	2002/12/09 15:52
12	3	(ret or retted or retting) with (digester or steam or liquor)	USPAT; US-PGPUB	2002/12/09 15:55
13	1527	(ret or retting ore retted) same (refining or refiner or refined or refine)	USPAT; US-PGPUB	2002/12/09 15:57
14	9	(ret or retting or retted) same (refining or refiner or refined or refine)	USPAT; US-PGPUB	2002/12/09 16:00
15	17	(retting or retted) and (refining or refiner or refined or refine)	USPAT; US-PGPUB	2002/12/09 16:00
16	15	((retting or retted) and (refining or refiner or refined or refine)) not ((ret or retting or retted) same (refining or refiner or refined or refine))	USPAT; US-PGPUB	2002/12/09 16:55
17	311	(162/97,98).CCLS.	USPAT; US-PGPUB	2002/12/09 16:56
18	1	fibrillat\$3 and ((162/97,98).CCLS.)	USPAT; US-PGPUB	2002/12/09 16:57
19	513	fibrillat\$3 same (adhesive or binder or ((bonding or binding) adj1 (fiber or agent or material or resin or substance or composition)))	USPAT; US-PGPUB	2002/12/09 17:09
20	12935	(air\$1laid or air\$1laying or air\$1lay or dry-form\$3 or dryform\$3 or ((air or dry) adj1 (lay or laying or laid or form\$3))).ti,ab,bsum,clm.	USPAT; US-PGPUB	2002/12/09 17:05
21	24	(fibrillat\$3 same (adhesive or binder or ((bonding or binding) adj1 (fiber or agent or material or resin or substance or composition)))) and ((air\$1laid or air\$1laying or air\$1lay or dry-form\$3 or dryform\$3 or ((air or dry) adj1 (lay or laying or laid or form\$3))).ti,ab,bsum,clm.)	USPAT; US-PGPUB	2002/12/09 17:09
22	624	(flax or hemp) same (adhesive or binder or ((bonding or binding) adj1 (fiber or agent or material or resin or substance or composition)))	USPAT; US-PGPUB	2002/12/09 17:11
23	32	((air\$1laid or air\$1laying or air\$1lay or dry-form\$3 or dryform\$3 or ((air or dry) adj1 (lay or laying or laid or form\$3))).ti,ab,bsum,clm.) and ((flax or hemp) same (adhesive or binder or ((bonding or binding) adj1 (fiber or agent or material or resin or substance or composition))))	USPAT; US-PGPUB	2002/12/09 17:11